according to Regulation (EC) No 1907/2006

## **ADDINOL Gear Oil CLP 460**

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## SECTION 1: Identification of the substance/mixture and of the company/undertaking

## 1.1. Product identifier

ADDINOL Gear Oil CLP 460

# 1.2. Relevant identified uses of the substance or mixture and uses advised against

# Use of the substance/mixture

Gearbox oil.

For industrial purposes only.

# 1.3. Details of the supplier of the safety data sheet

Manufacturer

Company name: ADDINOL Lube Oil GmbH

Gebäude 4609

Street: Am Haupttor Place: D-06237 Leuna

Telephone: +49 (0) 3461 845-0 Telefax: +49 (0) 3461 845-555

E-mail: info@addinol.de
Contact person: Application Technology

Internet: www.addinol.de

Responsible Department: ADDINOL Application Technology

**Supplier** 

Company name: GEM OILS LIMITED

Place: IRL-H12K298 Regaskin Co. Cavan

Telephone: +353 49 4378116 Telefax: +353 49 4368329

E-mail: sales@gemoils.ie

Contact person: GEM OILS LIMITED Telephone: +353 49 4378116

E-mail: sales@gemoils.ie Internet: https://gemoils.ie/

1.4. Emergency telephone Healthcare Professionals: +353 (1) 809 2566 (24 hour service)

number:

## **SECTION 2: Hazards identification**

# 2.1. Classification of the substance or mixture

## Regulation (EC) No 1272/2008

This mixture is not classified as hazardous in accordance with Regulation (EC) No 1272/2008.

## 2.2. Label elements

## Regulation (EC) No 1272/2008

# Special labelling of certain mixtures

EUH210 Safety data sheet available on request.

## Additional advice on labelling

According to EC directives or the corresponding national regulations the product does not have to be labelled.

## 2.3. Other hazards

Prolonged/repetitive skin contact may cause skin defattening or dermatitis.

Spilled product must not leak into the ground.

Do not allow uncontrolled leakage of product into the environment.

# **SECTION 3: Composition/information on ingredients**

## 3.2. Mixtures

according to Regulation (EC) No 1907/2006

## **ADDINOL Gear Oil CLP 460**

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## Relevant ingredients

| CAS No     | Chemical name   |                    |                  |             |  |
|------------|---|--------------------|------------------|-------------|--|
|            | EC No   | Index No           | REACH No         |             |  |
|            | Classification (Regulation (EC) No  | 1272/2008)         |                  |             |  |
| 64742-54-7 | Distillates (petroleum), hydrotreated   | I heavy paraffinic |                  | 5 - < 10 %  |  |
|            | 265-157-1   |                    | 01-2119484627-25 |             |  |
|            | Asp. Tox. 1; H304   | •                  |                  |             |  |
| 68937-96-2 | Di-tert-butyl-Polysulfides  |                    |                  | 0.5 - < 1 % |  |
|            | 273-103-3   |                    | 01-2119540515-43 |             |  |
|            | Skin Sens. 1B, Aquatic Chronic 3; H317 H412   |                    |                  |             |  |
| 68955-53-3 | Amines, C10-C14-tert-alkyl  |                    |                  | < 0.1 %     |  |
|            | 701-175-2   |                    | 01-2119456798-18 |             |  |
|            | Acute Tox. 2, Acute Tox. 3, Acute Tox. 4, Skin Corr. 1B, Eye Dam. 1, Skin Sens. 1A, Aquatic Acute 1, Aquatic Chronic 1; H330 H311 H302 H314 H318 H317 H400 H410 |                    |                  |             |  |

Full text of H and EUH statements: see section 16.

## Specific Conc. Limits, M-factors and ATE

| CAS No     | EC No  | Chemical name  | Quantity    |
|------------|--|--|-------------|
|            | Specific Conc. L   | imits, M-factors and ATE                               |             |
| 64742-54-7 | 265-157-1  | Distillates (petroleum), hydrotreated heavy paraffinic | 5 - < 10 %  |
|            | dermal: LD50 =   | : > 5000 mg/kg; oral: LD50 = > 5000 mg/kg              |             |
| 68937-96-2 | 273-103-3  | Di-tert-butyl-Polysulfides                             | 0.5 - < 1 % |
|            | Skin Sens. 1B;   | H317: >= 46 - 100                                      |             |
| 68955-53-3 | 701-175-2  | Amines, C10-C14-tert-alkyl                             | < 0.1 %     |
|            | inhalation: LC50 = >= 157 mg/l (vapours); inhalation: ATE = 0,05 mg/l (dusts or mists); dermal: LD50 = 251 mg/kg; oral: LD50 = > 500 mg/kg Aquatic Acute 1; H400: M=1 Aquatic Chronic 1; H410: M=1 |  |             |

## **Further Information**

This mixture does not contain any substances which either present a health or environmental hazard according to Regulation (EC) No. 1272/2008 or have an occupational exposure limit assigned.

DMSO-Extract < 3 %; IP 346. Classification system: The classification corresponds to the current EC lists and is completed by information from specialist literature and company information.

# **SECTION 4: First aid measures**

# 4.1. Description of first aid measures

## **General information**

Self-protection of the first aider. Change contaminated clothing. Do not put any product-impregnated cleaning rags into your trouser pockets.

## After inhalation

Move victim to fresh air. Put victim at rest and keep warm. Seek medical attention if problems persist.

# After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Change contaminated clothing. In case of skin irritation, seek medical treatment.

# After contact with eyes

In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist.

# After ingestion

Do NOT induce vomiting.

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Rinse mouth thoroughly with water. Call a physician immediately.

# 4.2. Most important symptoms and effects, both acute and delayed

No information available.

## 4.3. Indication of any immediate medical attention and special treatment needed

First Aid, decontamination, treatment of symptoms.

## **SECTION 5: Firefighting measures**

## 5.1. Extinguishing media

## Suitable extinguishing media

Foam. Extinguishing powder. Carbon dioxide (CO2). Atomized water.

## Unsuitable extinguishing media

High power water jet.

## 5.2. Special hazards arising from the substance or mixture

In case of fire may be liberated: Carbon monoxide Carbon dioxide (CO2). Nitrogen oxides (NOx). Sulfur oxides, carbon black.

## 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

#### Additional information

Co-ordinate fire-fighting measures to the fire surroundings. Use water spray jet to protect personnel and to cool endangered containers. In case of fire and/or explosion do not breathe fumes. Contaminated fire-fighting water must be collected separately.

## **SECTION 6: Accidental release measures**

## 6.1. Personal precautions, protective equipment and emergency procedures

## General advice

High slip hazard because of leaking or spilled product. Remove all sources of ignition. Wear breathing apparatus if exposed to vapours/dusts/aerosols. Avoid contact with skin, eyes and clothes.

## 6.2. Environmental precautions

Do not allow to enter into surface water or drains. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities. Prevent spread over a wide area (e.g. by containment or oil barriers).

## 6.3. Methods and material for containment and cleaning up

## Other information

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal. Clean contaminated articles and floor according to the environmental legislation.

## 6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8 Section 12: Ecological Information (non-mandatory)

Disposal: see section 13

# **SECTION 7: Handling and storage**

## 7.1. Precautions for safe handling

## Advice on safe handling

Work in well-ventilated zones or use proper respiratory protection. Avoid oil mist If handled uncovered, arrangements with local exhaust ventilation have to be used. Avoid contact with skin, eyes and clothes.

# Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking.

according to Regulation (EC) No 1907/2006

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# Advice on general occupational hygiene

Wash hands before breaks and after work. Take off immediately all contaminated clothing. Wash contaminated clothing prior to re-use. Do not eat, drink, smoke or sneeze at the workplace.

# 7.2. Conditions for safe storage, including any incompatibilities

# Requirements for storage rooms and vessels

Keep the packing dry and well sealed to prevent contamination and absorbtion of humidity. Keep container tightly closed in a cool place. Keep/Store only in original container.

# Hints on joint storage

Keep away from food, drink and animal feedingstuffs.

Keep away from: Oxidizing agent

# Further information on storage conditions

Protect against: UV-radiation/sunlight. frost. heat. Recommended storage temperature: 5 - 40°C

# 7.3. Specific end use(s)

Further information: see technical data sheet.

# **SECTION 8: Exposure controls/personal protection**

# 8.1. Control parameters

## **DNEL/DMEL values**

| CAS No                   | Substance  |                |          |                       |  |
|--------------------------|--|----------------|----------|-----------------------|--|
| DNEL type                |  | Exposure route | Effect   | Value                 |  |
| 64742-54-7               | Distillates (petroleum), hydrotreated heavy paraffinic |                |          |                       |  |
| Worker DNEL              | , long-term  | inhalation     | systemic | 2,73 mg/m³            |  |
| Worker DNEL              | , long-term  | inhalation     | local    | 5,58 mg/m³            |  |
| Worker DNEL              | , long-term  | dermal         | systemic | 0,97 mg/kg<br>bw/day  |  |
| Consumer DN              | EL, long-term  | inhalation     | local    | 1,19 mg/m³            |  |
| Consumer DN              | EL, long-term  | oral           | systemic | 0,74 mg/kg<br>bw/day  |  |
| 68937-96-2               | Di-tert-butyl-Polysulfides                             |                |          |                       |  |
| Worker DNEL              | , long-term  | inhalation     | systemic | 3,29 mg/m³            |  |
| Worker DNEL              | , long-term  | dermal         | systemic | 4,67 mg/kg<br>bw/day  |  |
| Consumer DN              | EL, long-term  | inhalation     | systemic | 0,58 mg/m³            |  |
| Consumer DN              | EL, long-term  | dermal         | systemic | 1,67 mg/kg<br>bw/day  |  |
| Consumer DN              | EL, long-term  | oral           | systemic | 0,167 mg/kg<br>bw/day |  |
| 68955-53-3               | Amines, C10-C14-tert-alkyl                             |                |          |                       |  |
| Worker DNEL              | , long-term  | inhalation     | systemic | 12,5 mg/m³            |  |
| Worker DNEL              | , long-term  | inhalation     | local    | 12,1 mg/m³            |  |
| Consumer DNEL, long-term |  | inhalation     | systemic | 2,5 mg/m³             |  |
| Consumer DNEL, long-term |  | inhalation     | local    | 1,2 mg/m³             |  |
| Consumer DN              | EL, long-term  | oral           | systemic | 0,35 mg/kg<br>bw/day  |  |

according to Regulation (EC) No 1907/2006

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## **PNEC values**

| CAS No   | Substance  |               |
|--|--|---------------|
| Environmenta                                     | al compartment   | Value         |
| 64742-54-7                                       | Distillates (petroleum), hydrotreated heavy paraffinic |               |
| Secondary po                                     | pisoning   | 9,33 mg/kg    |
| 68937-96-2                                       | Di-tert-butyl-Polysulfides                             |               |
| Freshwater                                       |  | 0,00024 mg/l  |
| Freshwater (i                                    | ntermittent releases)                                  | 0,002 mg/l    |
| Marine water                                     |  | 0,000024 mg/l |
| Freshwater s                                     | ediment  | 0,94 mg/kg    |
| Marine sedim                                     | nent   | 0,094 mg/kg   |
| Secondary poisoning                              |  | 6,66 mg/kg    |
| Micro-organisms in sewage treatment plants (STP) |  | 4,51 mg/l     |
| Soil   |  | 0,0181 mg/kg  |
| 68955-53-3                                       | Amines, C10-C14-tert-alkyl                             |               |
| Freshwater                                       |  | 0,001 mg/l    |
| Freshwater (i                                    | ntermittent releases)                                  | 0,004 mg/l    |
| Marine water                                     |  | 0 mg/l        |
| Freshwater sediment                              |  | 2,14 mg/kg    |
| Marine sediment                                  |  | 0,214 mg/kg   |
| Secondary poisoning                              |  | 4,71 mg/kg    |
| Micro-organis                                    | sms in sewage treatment plants (STP)                   | 0,635 mg/l    |
| Soil   |  | 0,428 mg/kg   |

# Additional advice on limit values

Recommended limit value for oil mist

TWA: 5 mg/m³ STEL: 10 mg/m³

The product does not contain any relevant quantities of substances with legally established exposure limitation.

# 8.2. Exposure controls





## Appropriate engineering controls

Provide adequate ventilation as well as local exhaustion at critical locations.

## Individual protection measures, such as personal protective equipment

# Eye/face protection

Tightly sealed safety glasses. German Industry Norms (DIN) / European Norms (EN): EN 166

# **Hand protection**

Tested protective gloves are to be worn: German Industry Norms (DIN) / European Norms (EN): EN ISO 374

Duration of wearing with permanent contact: 480 min

Suitable material: NBR (Nitrile rubber). Thickness of glove material: 0.7 mm.

according to Regulation (EC) No 1907/2006

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Wearing time with occasional contact (splashes): 30 min

Suitable material: NBR (Nitrile rubber). Thickness of glove material: 0.4 mm

Protect skin by using skin protective cream.

## Skin protection

Wear suitable protective clothing. Change contaminated clothing. Do not put any product-impregnated cleaning rags into your trouser pockets.

# Respiratory protection

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. Cosaint riospráide le scagaire i gcoinne gás orgánach agus gaile cineál A - fiuchphointe> 65 ° C: A1: <1000 ppm; A2: <5000 ppm; A3: <10,000 ppm.

## **SECTION 9: Physical and chemical properties**

# 9.1. Information on basic physical and chemical properties

Physical state: liquid
Colour: brown

Odour: like: mineral oil.
Odour threshold: not determined

Test method

Melting point/freezing point:

Boiling point or initial boiling point and

No data available
not determined

boiling range:

Flammability: No data available Lower explosion limits: No data available Upper explosion limits: No data available

Flash point: 290 °C DIN EN ISO 2592

Auto-ignition temperature: not determined
Decomposition temperature: No data available
pH-Value: not applicable

Viscosity / kinematic: 460 mm²/s ASTM D 445

(at 40 °C)

Water solubility: virtually insoluble

Solubility in other solvents

No data available

Partition coefficient n-octanol/water:

Vapour pressure:

No data available

No data available

Density (at 15 °C): 0,902 g/cm³ DIN 51757

Relative vapour density:

Particle characteristics:

No data available

No data available

# 9.2. Other information

## Information with regard to physical hazard classes

Explosive properties
No data available
Self-ignition temperature

Solid: No data available
Gas: No data available

Oxidizing properties

No data available

## Other safety characteristics

according to Regulation (EC) No 1907/2006

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Evaporation rate: No data available

Pour point: -18 °C ASTM D 7346

# **SECTION 10: Stability and reactivity**

## 10.1. Reactivity

The product is stable under storage at normal ambient temperatures.

## 10.2. Chemical stability

The mixture is chemically stable under recommended conditions of storage, use and temperature.

# 10.3. Possibility of hazardous reactions

No known hazardous reactions.

## 10.4. Conditions to avoid

Refer to chapter 7 No further action is necessary.

Do not overheat to avoid decomposition by heat.

## 10.5. Incompatible materials

Reacts with: Oxidising agent, strong.

## 10.6. Hazardous decomposition products

In case of fire may be liberated: Carbon monoxide Carbon dioxide (CO2). Nitrogen oxides (NOx). Sulfur oxides. carbon black. No known hazardous decomposition products.

# **SECTION 11: Toxicological information**

# 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

## **Acute toxicity**

Based on available data, the classification criteria are not met.

Mixture not tested.

# **ATEmix** calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

| CAS No     | Chemical name  |               |           |         |                     |                    |
|------------|--|---------------|-----------|---------|---------------------|--------------------|
|            | Exposure route   | Dose          |           | Species | Source              | Method             |
| 64742-54-7 | Distillates (petroleum), hydrotreated heavy paraffinic |               |           |         |                     |                    |
|            | oral   | LD50<br>mg/kg | > 5000    | Rat     | Study report (1982) | OECD Guideline 401 |
|            | dermal   | LD50<br>mg/kg | > 5000    | Rabbit  | Study report (1982) | OECD Guideline 402 |
| 68955-53-3 | 3 Amines, C10-C14-tert-alkyl                           |               |           |         |                     |                    |
|            | oral   | LD50<br>mg/kg | > 500     | Rat     | Study report (1993) | OECD Guideline 401 |
|            | dermal   | LD50<br>mg/kg | 251       | Rat     | Study report (1993) | OECD Guideline 402 |
|            | inhalation (4 h) vapour                                | LC50<br>mg/l  | >= 157    | Rat     | Study report (2001) | OECD Guideline 403 |
|            | inhalation dust/mist                                   | ATE           | 0,05 mg/l |         |                     |                    |

## Irritation and corrosivity

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.

## Sensitising effects

Based on available data, the classification criteria are not met.

according to Regulation (EC) No 1907/2006

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# Carcinogenic/mutagenic/toxic effects for reproduction

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met.

Reproductive toxicity: Based on available data, the classification criteria are not met.

## STOT-single exposure

Based on available data, the classification criteria are not met.

## STOT-repeated exposure

Based on available data, the classification criteria are not met.

Prolonged/repetitive skin contact may cause skin defattening or dermatitis.

## **Aspiration hazard**

Based on available data, the classification criteria are not met.

## 11.2. Information on other hazards

## **Endocrine disrupting properties**

not applicable

# **SECTION 12: Ecological information**

## 12.1. Toxicity

Based on available data, the classification criteria are not met.

Mixture not tested.

| CAS No     | Chemical name               |                  |                |           |  |   |   |
|------------|-----------------------------|------------------|----------------|-----------|--|---|---|
|            | Aquatic toxicity            | Dose             |                | [h]   [d] | Species  | Source                                  | Method                                  |
| 64742-54-7 | Distillates (petroleum), hy | drotreated h     | neavy paraffir | nic       |  |   |   |
|            | Acute fish toxicity         | LL50<br>mg/l     | > 100          | 96 h      | Pimephales promelas                                      | Study report<br>(1995)                  | OECD Guideline<br>203                   |
|            | Acute algae toxicity        | ErC50<br>mg/l    | >100           | 72 h      |  |   |   |
|            | Fish toxicity               | NOEC<br>mg/l     | >= 1000        | 14 d      | Oncorhynchus mykiss                                      | CONCAWE,<br>Brussels, Belgium<br>(2010) | The aquatic toxicity was estimated by a |
| 68937-96-2 | Di-tert-butyl-Polysulfides  |                  |                |           |  |   |   |
|            | Acute algae toxicity        | ErC50<br>mg/l    | > 100          | 72 h      | Raphidocelis<br>subcapitata                              | Study report<br>(2012)                  | OECD Guideline<br>201                   |
|            | Acute crustacea toxicity    | EL50             | 63 mg/l        | 48 h      | Daphnia magna  | Study report<br>(2013)                  | OECD Guideline<br>202                   |
| 68955-53-3 | Amines, C10-C14-tert-alkyl  |                  |                |           |  |   |   |
|            | Acute fish toxicity         | LC50             | 1,3 mg/l       | 96 h      | Oncorhynchus mykiss                                      | Study report<br>(1994)                  | OECD Guideline<br>203                   |
|            | Acute algae toxicity        | ErC50<br>mg/l    | 0,44           | 72 h      | Raphidocelis<br>subcapitata                              | Study report<br>(1994)                  | OECD Guideline<br>201                   |
|            | Acute crustacea toxicity    | EC50             | 4,1 mg/l       | 48 h      | Daphnia magna  | Study report<br>(1984)                  | OECD Guideline<br>202                   |
|            | Fish toxicity               | NOEC<br>mg/l     | 0,078          | 96 d      | Oncorhynchus mykiss                                      | Study report<br>(2002)                  | OECD Guideline<br>210                   |
|            | Acute bacteria toxicity     | EC50<br>mg/l ( ) | 63,5           | 0,5 h     | activated sludge of a<br>predominantly<br>domestic sewag | Study report<br>(2008)                  | OECD Guideline<br>209                   |

## 12.2. Persistence and degradability

Not easily bio-degradable (according to OECD-criteria). Do not allow to enter into surface water or drains.

## 12.3. Bioaccumulative potential

No data available

according to Regulation (EC) No 1907/2006

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#### Partition coefficient n-octanol/water

| CAS No     | Chemical name              | Log Pow |
|------------|----------------------------|---------|
| 68937-96-2 | Di-tert-butyl-Polysulfides | 5,6     |
| 68955-53-3 | Amines, C10-C14-tert-alkyl | 2,9     |

## **BCF**

| CAS No     | Chemical name              | BCF   | Species             | Source              |
|------------|----------------------------|-------|---------------------|---------------------|
| 68937-96-2 | Di-tert-butyl-Polysulfides | 0,006 | Lepomis macrochirus | Study report (2015) |

## 12.4. Mobility in soil

Due to its low solubility in water the product is almost completely mechanically separated in biological waste water treatment plants.

## 12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

## 12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

## 12.7. Other adverse effects

No data available

#### **Further information**

Do not allow uncontrolled leakage of product into the environment.

# **SECTION 13: Disposal considerations**

## 13.1. Waste treatment methods

# **Disposal recommendations**

Must not be disposed of with domestic refuse. Do not allow to enter into surface water or drains.

## List of Wastes Code - residues/unused products

130205 OIL WASTES AND WASTES OF LIQUID FUELS (EXCEPT EDIBLE OILS, AND THOSE IN

CHAPTERS 05, 12 AND 19); waste engine, gear and lubricating oils; mineral-based non-chlorinated

engine, gear and lubricating oils; hazardous waste

# Contaminated packaging

Contaminated packages must be completely emptied and can be re-used following proper cleaning. Dispose of waste according to applicable legislation. Packing which cannot be properly cleaned must be thrown away.

## **SECTION 14: Transport information**

44.4 LIM number or ID number

## Land transport (ADR/RID)

| 14.1. ON Humber of 1D Humber.     | - |
|-----------------------------------|---|
| 14.2. UN proper shipping name:    | - |
| 14.3. Transport hazard class(es): | - |
| 14.4. Packing group:              | - |

## Inland waterways transport (ADN)

| 14.1. UN number or ID number:     | - |
|-----------------------------------|---|
| 14.2. UN proper shipping name:    | - |
| 14.3. Transport hazard class(es): | - |
| 14.4. Packing group:              | - |

## Marine transport (IMDG)

| 14.1. UN number or ID number:     | - |
|-----------------------------------|---|
| 14.2. UN proper shipping name:    | - |
| 14.3. Transport hazard class(es): | - |
| 14.4. Packing group:              | - |

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## Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number:
14.2. UN proper shipping name:
14.3. Transport hazard class(es):
14.4. Packing group:

## 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

## 14.6. Special precautions for user

Unless specified otherwise, general measures for safe transport must be followed.

# 14.7. Maritime transport in bulk according to IMO instruments

not applicable

## Other applicable information

No dangerous good in sense of these transport regulations.

# **SECTION 15: Regulatory information**

# 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

# **EU** regulatory information

Restrictions on use (REACH, annex XVII):

Entry 75

## **National regulatory information**

Water hazard class (D): 2 - obviously hazardous to water

# 15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

# **SECTION 16: Other information**

# Changes

This data sheet contains changes from the previous version in section(s): 2,3,5,6,8,9,15.

according to Regulation (EC) No 1907/2006

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## Abbreviations and acronyms

Acute Tox: Acute toxicity
Asp. Tox: Aspiration hazard
Skin Corr: Skin corrosion
Eye Dam: Eye damage
Skin Sens: Skin sensitisation
Aquatic Acute: Acute aquatic hazard
Aquatic Chronic: Chronic aquatic hazard

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; ADN -European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways: ASTM - American Society for the Testing of Materials: ATE - Acute Toxicity Estimates; bw - Body weight: CAO -Cargo Aircraft Only: CAS - Chemical Abstracts Service: CMR - Carcinogen, Mutagen or Reproductive Toxicant: DIN - Standard of the German Institute for Standardisation: DNEL - Derived No-Effect Level: DOT -Department of Transportation; DSL - Domestic Substances List (Canada); EG - European Union; EN -European standards; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISO - International Organisation for Standardization; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n;o;s; - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; OECD - Organization for Economic Co-operation and Development; PBT -Persistent, Bioaccumulative and Toxic substance; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals: RID - Regulation concerning the International Carriage of Dangerous Goods by Rail: RQ -Reportable Quantity; SADT - Self- Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TSCA - Toxic Substances Control Act (United States); UN -United Nations; vPvB - Very Persistent and Very Bioaccumulative

# Relevant H and EUH statements (number and full text)

| H302   | Harmful if swallowed.                                 |
|--------|---|
| H304   | May be fatal if swallowed and enters airways.         |
| H311   | Toxic in contact with skin.                           |
| H314   | Causes severe skin burns and eye damage.              |
| H317   | May cause an allergic skin reaction.                  |
| H318   | Causes serious eye damage.                            |
| H330   | Fatal if inhaled.                                     |
| H400   | Very toxic to aquatic life.                           |
| H410   | Very toxic to aquatic life with long lasting effects. |
| H412   | Harmful to aquatic life with long lasting effects.    |
| EUH210 | Safety data sheet available on request.               |

## **Further Information**

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

The receiver of our product is singularly responsible for adhering to existing laws and regulations.

according to Regulation (EC) No 1907/2006

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(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)